



• Introduction

AC (Alternating Current) charging cables are primarily used to connect electric vehicles (EVs) to AC charging stations, commonly referred to as Level 1 and Level 2 chargers. These cables deliver alternating current to the vehicle's onboard charger, which converts the AC to DC to charge the battery.

• Application

Residential Charging: Ideal for home charging setups where overnight charging is sufficient.

Workplace Charging: Suitable for employees to charge their vehicles during work hours.

Public Charging Stations: Widely used in shopping malls, parking lots, and other public areas for convenient charging.

• Performance

Ambient Temperature: -40~ to 50°C

Rated voltage: 450/750V

Bending radius: $\geq 5D$

Withstand voltage test: 3.5kV/15min

Acid and alkali resistance: 23C/168h

Tensile strength change rate: maximum $\pm 30\%$

Elongation at break: minimum 100%.

Resistance to picking test: minimum new strength of 20N/mm

• Construction

Conductors: High-quality copper for efficient electrical conductivity.

Insulation: Durable materials such as PVC or XLPE to ensure safety and longevity.

Sheathing: LSZH (Low Smoke Zero Halogen) materials to minimize toxic emissions in case of fire.

Connectors:

Type 1 (SAE J1772): Commonly used in North America.

Type 2 (IEC 62196 or Mennekes): Commonly used in Europe.

• Specification

-IEC 62196: Defines the connectors and charging standards for electric vehicles.

-IEC 61851: Specifies the electric vehicle conductive charging system, including general requirements for AC and DC charging.

-SAE J1772: Standard for electrical connectors for electric vehicles in North America.

*** This is customized product and can be designed according to customers' request.

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

No. of Cores × Nominal Cross Section Area	Conductor Resistance Bare Copper/Tinned copper	Insulation Thickness	Sheath Thickness	Cable Overall Dia.
mm ²	Ω/km	mm	mm	mm
3×1.5	13.3/13.7	0.8	1.1	11.6~14.9
3×2.5	7.98/8.21	0.8	1.1	12.6~16.1
3×4	4.95/5.09	1.0	1.2	14.4~18.4
3×6	3.30/3.39	1.0	1.3	15.8~20.2
3×10	1.91/1.95	1.0	1.4	17.6~22.3
3×16	1.21/1.24	1.0	1.6	20.1~25.4
3×25	0.780/0.795	1.2	1.7	24.0~30.4
3×35	0.554/0.565	1.2	2.0	27.7~35.0
3×50	0.386/0.393	1.4	2.2	32.4~40.9
3×70	0.272/0.277	1.4	2.5	37.1~46.8
4×1.5	13.3/13.7	0.8	1.1	12.6~16.1
4×2.5	7.98/8.21	0.8	1.2	13.7~17.5
4×4	4.95/5.09	1.0	1.3	16.0~20.4
4×6	3.30/3.39	1.0	1.4	17.5~22.2
4×10	1.91/1.95	1.0	1.5	19.7~25.0
4×16	1.21/1.24	1.0	1.7	22.5~28.6
4×25	0.780/0.795	1.2	1.9	27.2~34.3
4×35	0.554/0.565	1.2	2.2	30.8~38.9
4×50	0.386/0.393	1.4	2.5	36.2~45.6
4×70	0.272/0.277	1.4	2.8	41.4~52.1
5×1.5	13.3/13.7	0.8	1.2	13.6~17.4
5×2.5	7.98/8.21	0.8	1.3	14.9~19.0
5×4	4.95/5.09	1.0	1.4	17.6~22.3
5×6	3.30/3.39	1.0	1.5	19.3~24.5
5×10	1.91/1.95	1.0	1.6	21.9~27.7
5×16	1.21/1.24	1.0	1.8	25.0~31.7
5×25	0.780/0.795	1.2	2.2	30.7~38.8
5×35	0.554/0.565	1.2	2.3	34.2~43.1
5×50	0.386/0.393	1.4	2.7	40.2~50.6
5×70	0.272/0.277	1.4	3.0	45.9~57.7